

ABSTRACT

The invention includes a brazed ceramic ring that separates the positive and negative
5 ends of the battery while still providing a leak-tight seal. The ceramic is aluminum
oxide or zirconium oxide or zirconium oxide with 3% yttrium. The invention
includes a brazing material that is greater than 50% gold. The invention includes a
10 titanium alloy case (Ti-6Al-4V) which is titanium with 6% aluminum and 4%
vanadium as its major alloying elements. The case has the desirable properties of
titanium such as high strength for a relatively low weight; and the case has the
requisite ability and electro-activity to be used a positive current carrying element
15 where the battery's positive electrode exhibits more than 3.5 V vs. Li/Li⁺.

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